

REMARKS

Claims 16 through 31 continue to be in the case.

New claim 32 is based on the language of claim 20.

New claim 33 is based on the language of claim 19.

New claim 34 is based on the language of claim 25.

New claim 35 is based on the language of claim 31.

The Office Action refers to the Specification.

1. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION. (b) CROSS-REFERENCE TO RELATED APPLICATIONS. (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT. (d) THE NAMES OF

THE PARTIES TO A JOINT RESEARCH AGREEMENT (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.) (f) BACKGROUND OF THE INVENTION. (1) Field of the Invention. (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98. (g) BRIEF SUMMARY OF THE INVENTION. (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S). (i) DETAILED DESCRIPTION OF THE INVENTION. (j) CLAIM OR CLAIMS (commencing on a separate sheet). (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet). (l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821 (a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Applicant is amending the specification along the guide lines set forth in the Office Action.

The Office Action refers to Claim Objections.

2. Claim 1 stands objected to because of the following informalities:

Applicant respectfully submits that claim 1 has been cancelled.

In claim 16, line 13, "a toroidal coil" should be changed to --a toroidal coil--, and the last line "o " should be --of--.

The present amendment corrects claim 16, line 13 as kindly pointed out in the Office Action. The present amendment cancels the last line of claim 16.

In claim 18, line 2, "a hollow cone" should be changed to --the hollow cone-- if it is the hollow cone defined in claim 18. Appropriate correction is required.

The objection to claim 18 is not understood, since there is no other
hollow cone defined in claim 18.

The Office Action refers to *Claim Rejections - 35 USC § 112*

Claims 16-18, 20 stand rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 16, line 4, claim 17, lines 2 and 6, and the claim 20, line 3, the expression "or" renders the claims alternative.

Claim 16 recites the limitation "the first inductive component" in line 6. There is insufficient antecedent basis for this limitation in the claim.

Claim 16 recites the limitation "the resonant circuit" in lines 10 and 11. There is insufficient antecedent basis for this limitation in the claim.

Claim 16 recites the limitation "the resonant transformer" in lines 12 and 13. There is insufficient antecedent basis for this limitation in the claim.

Claim 17 recites the limitation "the resonator coil" in line 6. There is insufficient antecedent basis for this limitation in the claim. Is it the toroidal coil in claim 16?

Claim 18 recites the limitation "said terminate plane" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim 18 recites the limitation "the electric field" in lines 1 and 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 22 recites the limitation "the non-magnetic plane" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 25 recites the limitation "said conductor loops" in line 2. There is insufficient antecedent basis for this limitation in the claim.

The present amendment submits amendments to the claims which are deemed to be in line with the rejections expressed in the Office Action and it is believed that these amendments will obviate the expressed rejections.

The Office Action refers to *Allowable Subject Matter*

4. Claims 31 is allowed.

The indication of allowability of claim 31 is gratefully acknowledged. Applicant is submitting with this amendment a new claim 35, which is deemed to also contain the essential limitations of claim 31.

5. Claims 16-30 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Applicant sincerely appreciates the finding of allowable subject matter in claims 16 to 30. The claims are now being amended to present them in fully allowable form.

6. The following is a statement of reasons for the indication of allowable subject matter:

Claim 16 recites a radio antenna which is physically dimensioned to be less than ten percent of the operating wavelength, the Power to be transmitted is connected from a low impedance feeder via an inductive component connected to a low impedance tap on a RF autotransformer which has a capacitive component connected to be parallel resonance, the inductive component is used to stimulate the principal in-Phase RF magnetic field and the capacitive component is used to stimulate the principal in-Phase RF electric field, and in the resonant circuit the current fed to the resonant transfer directed through parallel Part of a toroidal coil.

Claim 31 recites an antenna device comprising two electrical conductive surfaces across which RF field lines each carrying half the Power are arranged to cross RF magnetic field lines carrying the remaining half power to feed through a set of coils wired in parallel and lying in toroidal shape to create a circular RF magnetic field and passes to a low impedance tap on a resonant autotransformer.

None of the prior arts shows or suggests these antenna devices. 7. The patents to Lindenblad, Stix, Chen et al, Hanawa et al, Acker et al, Psiol, and Roche are cited as of interest showing the device similar to that disclosed. *Conclusion*

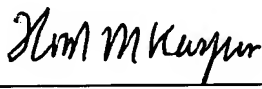
Applicant appreciates the detailed reasoning provided in the Office Action as to the allowability of the claims under consideration.

Reconsideration of all outstanding rejections is respectfully requested.

Entry of the present response is respectfully requested. All claims as submitted are deemed to be in form for allowance and an early notice of allowance is earnestly solicited.

Respectfully submitted,

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